VEHICLE CRASH SIMULATOR
WITH DYNAMIC MOTION SIMULATION

ABSTRACT OF THE DISCLOSURE

5   A vehicle crash simulator employs a plurality of actuators to simulate motions or forces of a crash event. The vehicle crash simulator includes a simulation platform supporting a test specimen or vehicle for analysis. The platform is accelerated

10   along a crash acceleration trajectory and forces are imparted to the platform to simulate a crash pulse or event. Forces are imparted to the simulation platform by a plurality of actuators "on-board" or coupled to the simulation platform for dynamic motion

15   simulation. Multi-axial forces F_x, F_y, F_z are imparted to simulate complex crash motions or forces for realistic crash testing.